



STA. 950+65.76 TO STA. 951+81.76, SB AND STA 952+18.96, NB (a)
 STA. 954+08.92 TO STA. 962+18.68 (a)
 STA. 968+77.69 TO STA. 971+10.50, SB AND STA. 970+95.00, NB (a)
 STA. 986+04.95 TO STA. 1004+86.44 (c)

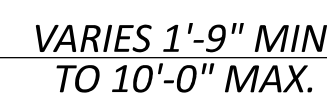
EXISTING APPROACH SLABS AND
 STRUCTURE MAH-680-5.601
 STA. 1004+86.44 TO STA. 1007+10.05

STA. 1007+10.05 TO STA. 1017+68.68 (c)

STA. 1020+92.94 TO STA. 1035+54.81 (a)
STA. 1036+39.97 TO STA. 1044+34.82 SOUTHBOUND (b)
STA. 1036+39.97 TO STA. 1044+22.02 NORTHBOUND (b)

EXISTING APPROACH SLABS AND STRUCTURE MAH-680-6.377 STA. 1044+34.82 TO STA. 1046+77.92
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STA. 1047+03.96 TO STA. 1050+06.40 SOUTHBOUND (b)
STA. 1046+77.92 TO STA. 1049+17.94 NORTHBOUND (b)



STA. 1041+21.44 TO STA. 1043+09.44 (b)



STA. 968+77.60 TO STA. 969+63.13 (a)

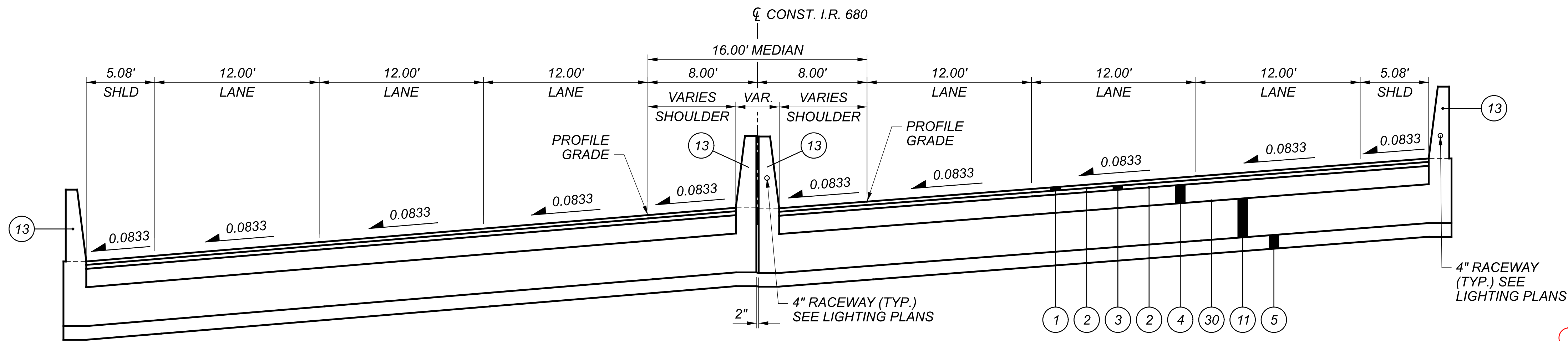
- ① ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (447)
- ② ITEM 407 - NON-TRACKING TACK COAT (RATE PER CMS TABLE 407.06-1)
- ③ ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5mm, TYPE A (446)
- ④ ITEM 302 - 8" ASPHALT CONCRETE BASE, PG64-22, (449) (2 EQUAL LIFTS)
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑥ ITEM 204 - SUBGRADE COMPACTION
- ⑦ ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC
- ⑧ ITEM 606 - GUARDRAIL, TYPE MGS

- 9 ITEM 659 - SEEDING AND MULCHING, CLASS 1
- 10 ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT
CLASS QC 1P
- 11 ITEM 526 - REINFORCED CONCRETE APPROACH SLABS
QC/QA (T=17")
- 12 ITEM 302 - 6" ASPHALT CONCRETE BASE, PG64-22, (449)
- 13 42" PARAPET (ON APPROACH SLAB)
- 14 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
- 15 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
- 16 ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
- 17 ITEM 609 - CONCRETE MEDIAN

- 18 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- 19 ITEM 608 - 4" CONCRETE WALK
- 20 ITEM 609 - CURB, TYPE 6
- 21 ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
- 22 ITEM 605 - 6" BASE PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC
- 23 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (449)
- 24 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
- 25 ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C, AS PER PLAN

- (26) ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN (T = 3")
- (27) ITEM 209 - LINEAR GRADING, AS PER PLAN
- (28) LONGITUDINAL JOINT (SEE STD. DWG. BP-2.1)
- (29) ITEM 618 - RUMBLE STRIPS, (ASPHALT CONCRETE) - SEE SCD BP-9.1
OR
ITEM 618 - RUMBLE STRIPS, (CONCRETE) - SEE SCD BP-9.1
- (30) ITEM 407 - TACK COAT, 702.13
- (31) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE
- (32) ITEM 254 - PORTABLE BARRIER, 50", AS PER PLAN, B

R1 - 12-05-2025, PORTABLE BARRIER ADDED
STA. 952+15 TO STA. 958+12



**PROPOSED I.R. 680
PROPOSED APPROACH SLAB**

STA. 962+18.68 TO STA. 962+48.68

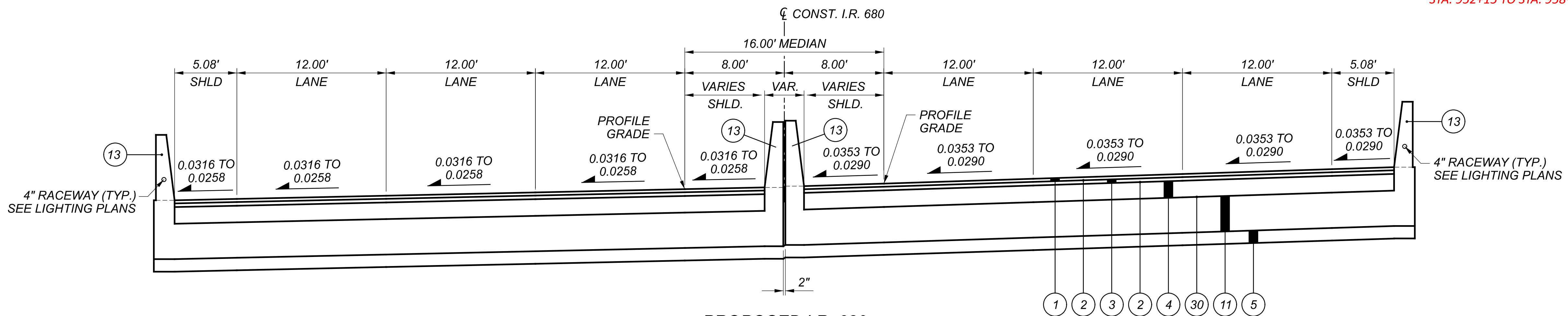
PROPOSED STRUCTURE MAH-680-4.886
STA. 962+48.68 TO STA. 968+47.69

NOTES:

1. FOR PROPOSED LEGEND SEE SHEET P.23
 2. PROPOSED DITCHES SHALL NOT BE ROUNDED WITHIN THE EXTENT OF VEGETATED BIOFILTERS. SEE PROJECT SITE PLAN FOR LOCATIONS.
- ⊗ = SEE NORTHBOUND TABLES ON SHEET P.29
⊗⊗ = SEE SOUTHBOUND TABLES ON SHEET P.30
Ω = SEE BARRIER TRANSITION TABLE ON SHEET P.28
ΩΩ = SEE BARRIER TRANSITION TABLE ON SHEET P.28
Φ = SEE PLAN SHEETS FOR PROP. GUARDRAIL & CONCRETE BARRIER LOCATION AND OFFSET
(x) UNDERDRAIN ONLY UTILIZED IN SPEED CHANGE LANE LOCATIONS. SEE THE UNDERDRAIN DETAILS.
(y) UNDERDRAIN ONLY UTILIZED IN GORE LOCATIONS. SEE THE UNDERDRAIN DETAILS.
** PORTABLE BARRIER FROM STA. 952+15 TO STA. 958+12

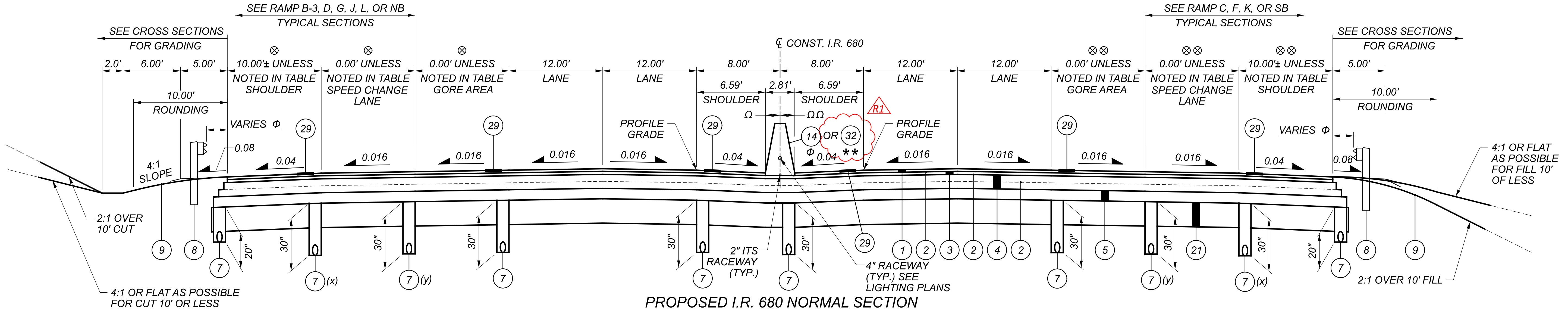


R1 - 12-05-2025, PORTABLE BARRIER ADDED
STA. 952+15 TO STA. 958+12



**PROPOSED I.R. 680
PROPOSED APPROACH SLAB**

STA. 968+47.69 TO STA. 968+77.69



PROPOSED I.R. 680 NORMAL SECTION

STA. 951+81.76, SB AND STA. 952+18.96, NB TO STA. 954+08.92
STA. 971+10.50, SB AND STA. 970+95.00, NB TO STA. 978+94.17

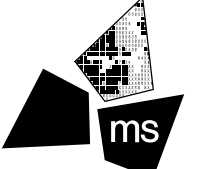
EXISTING APPROACH SLABS AND
STRUCTURE MAH-680-5.132
STA. 978+94.17 TO STA. 981+06.80

STA. 981+06.80 TO STA. 986+04.95
STA. 1017+68.68 TO STA. 1020+92.94
STA. 1035+54.81 TO STA. 1036+39.97
STA. 1050+06.40 TO STA. 1058+96.78 SOUTHBOUND
STA. 1049+17.94 TO STA. 1056+79.78 NORTHBOUND

SHEET NO.	STATION TO STATION					614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	630	630	630			
						INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE-WAY, WHITE	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE-WAY, YELLOW	BARRIER REFLECTOR, TYPE 1, ONE-WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE LANE LINE, CLASS I, 6", 648	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 648, WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 648, YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 648	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	WORK ZONE STOP LINE, CLASS I, 648	WORK ZONE CROSSWALK LINE, CLASS I, 12"	WORK ZONE ARROW, CLASS I, 648	WORK ZONE ARROW, CLASS I, 648, AS PER PLAN	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, 50", AS PER PLAN, A	PORTABLE BARRIER, 50", AS PER PLAN, B	PORTABLE BARRIER, UNANCHORED	SIGN, TEMPORARY OVERLAY
						FT	EACH	EACH	EACH	EACH	EACH	EACH	FT/MI	FT/MI	FT/MI	FT/MI	FT/MI	FT	FT	FT	FT	FT	FT	EACH	EACH	SY	FT	FT	FT	SF	SF	EACH
P.97	PHASE 1A STEP 2																															
	I-680																															
	1052+47	LT																											69	3		
	1052+62	RT	TO	1055+62	RT			30	30							300																
	1052+62	RT	TO	1055+82	RT			32					320																			
	1055+82	RT	TO	1058+82	RT			3																								
	1056+80	LT	TO	1059+17	LT			2				300																				
	1056+80	LT	TO	1065+80	LT											900																
	1059+80	LT	TO	1065+80	LT														600													
	I-680 SB CROSSOVER																															
0+00	LT	TO	4+84	LT			97	48				484	484		484																	
P.98	RAMP NB																															
	1051+04	RT	TO	1056+80	LT			5					576			576																
	S.R. 193																															
P.99	5+50	LT	TO	6+00	LT										50														12			
			TO											1034				600														
	WOODLAND AVE.																											18	6	2		
	RAMP SB																															
	1031+76	RT	TO	1034+27	RT													251														
	RAMP CA																															
	11+03	LT	TO	17+41	LT													638														
	12+97	R/L																											9	1		
	18+34	RL																											9	1		
	RAMP NB																											12	1			
	1028+35	RT	TO	1031+35	RT			60	30									300														
	1031+35	R/L																						225								
	1031+35	R/L	TO	1041+05	R/L			194	97					970	970		970															
1034+80	RT	TO	1039+71	RT		1				49	20																					
1035+05	LT	TO	1041+05	LT																					735			491				
1041+05	LT	TO	1044+05	LT			60	30									300															
P.107	PHASE 1B STEP 1																															
	I-680																															
	939+30	L/R	TO	955+50	RT			23					2756		836	836																
	945+29	RT	TO	955+50	RT											1021																
	946+10	R/L	TO	950+66	R/L					46	18																	456				
	950+66	RT	TO	952+73	RT										207																	
	952+15	CL	TO	955+50	CL					68	13																	335				
	952+73	RT	TO	954+05	RT													132														
	954+05	RT	TO	955+50	RT			1					145																			
	RAMP C																															
	0+52	LT	TO	8+58	LT											806																
	0+81	RT	TO	20+33	R/L								25																			
	8+58	LT	TO	9+18	RT													60														
	10+22	LT	TO	17+59	LT											737																
	17+59	LT	TO	18+89	LT													130														
	RAMP C-3																															
	951+07	LT	TO	956+39	LT											532																
	951+89	LT	TO	952+41	LT													52														
	952+41	LT	TO	956+39	LT								398																			
	S.R. 193																															
	0+00	LT	TO	3+36	LT									336																		
	0+00	LT	TO	3+99	LT										399																	
	3+36	LT	TO	4+96	LT													160														
TOTALS IN FEET							12-05-2025, QUANTITY REVISED	R1				12-05-2025, QUANTITY REVISED		300	3714	484																
TOTALS IN MILES													0.06	0.70	0.09	0.30	0.59	1.28										R1	12-05-2025, QUANTITY REVISED			
TOTALS CARRIED TO SHEET P.74							1	507	235	163	20	31	0.06	0.70	0.09	0.30	0.59	1.28	784	2993	600	600				960		791	491	129	6	8

MAINTENANCE OF TRAFFIC
SUBSUMMARY

DESIGN AGENCY



ms consultants, inc.

DESIGNER

CLM

REVIEWER

KWR 06/02/25

PROJECT ID

121474

SHEET

P.63

TOTAL

655

SHEET NO.	STATION TO STATION						614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	630	630	630					
							INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE-WAY, WHITE	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE-WAY, YELLOW	BARRIER REFLECTOR, TYPE 1, ONE-WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE LANE LINE, CLASS I, 6", 648	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 648, WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 648, YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 648	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	WORK ZONE STOP LINE, CLASS I, 648	WORK ZONE CROSSWALK LINE, CLASS I, 12"	WORK ZONE ARROW, CLASS I, 648	WORK ZONE ARROW, CLASS I, 648, AS PER PLAN	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, 50", AS PER PLAN, A	PORTABLE BARRIER, 50", AS PER PLAN, B	PORTABLE BARRIER, UNANCHORED	SIGN, TEMPORARY OVERLAY	COVERING OF SIGN	REMOVAL OF TEMPORARY OVERLAY SIGN AND DISPOSAL
							FT	EACH	EACH	EACH	EACH	EACH	EACH	FT/MI	FT/MI	FT/MI	FT/MI	FT/MI	FT/MI	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	SY	FT	FT	FT	SF	SF	EACH
P.108	I-680																																		
	955+50	RT	TO	975+56	RT									2006																					
	955+50	RT	TO	978+00	RT																														
	955+50	CL	TO	958+12	CL																														
	RAMP F																																		
0+00	RT	TO	2+44	RT																															
PHASE 1B STEP 1																																			
P.109	I-680																																		
	978+00	RT	TO	1000+50	RT																														
	978+00	RT	TO	982+20	RT																														
	982+20	RT	TO	983+90	RT																														
	983+90	RT	TO	995+08	RT																														
	995+08	RT	TO	997+50	RT																														
	997+50	RT	TO	1000+50	RT																														
	999+00	RT		1000+50	RT																														
	RAMP F																																		
	2+44	BL	TO	16+76	BL																														
	6+63	LT	TO	8+32	LT																														
	8+32	LT	TO	16+76	LT																														
	RAMP H																																		
0+63	LT	TO	14+50	LT																															
2+57	BL	TO	18+30	BL																															
P.110	I-680																																		
	1000+50	RT	TO	1023+00	RT																														
	1000+50	RT	TO	1018+25	RT																														
	1000+50	RT	TO	1007+81	RT																														
	1012+07	RT	TO	1019+49	RT																														
	1019+49	RT	TO	1021+75	RT																														
	1021+75	RT	TO	1023+00	RT																														
	RAMP K																																		
	4+47	BL	TO	9+25	BL																														
	5+70	LT	TO	8+00	LT																														
8+00	LT	TO	9+25	LT																															
P.111	I-680																																		
	1023+00	RT	TO	1045+50	RT																							</							

MAINTENANCE OF TRAFFIC
SUBSUMMARY

DESIGN AGENCY



DESIGNER

CLM

REVIEWER

KWR 06/02/25

PROJECT ID

121474

SHEET

P.64

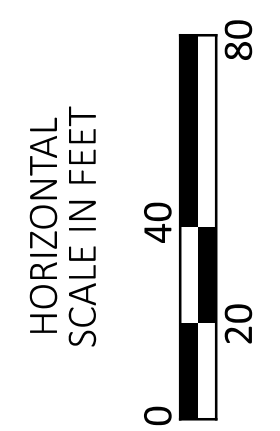
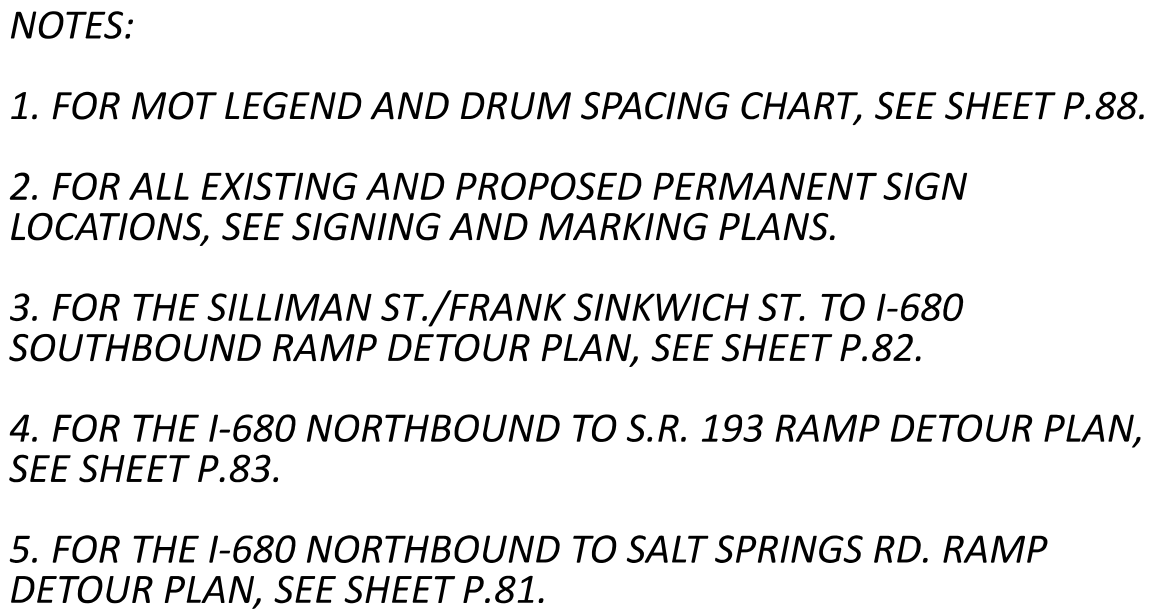
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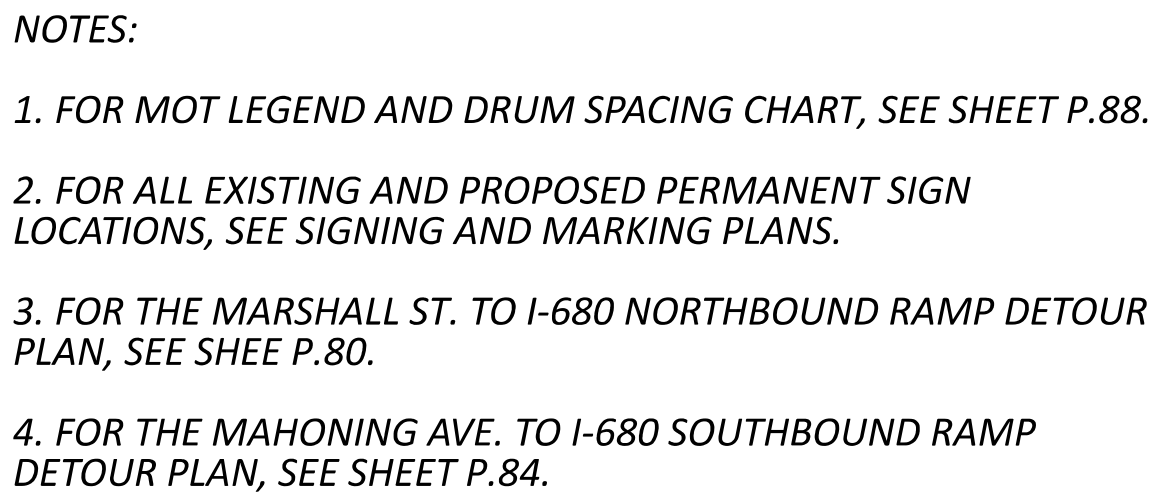
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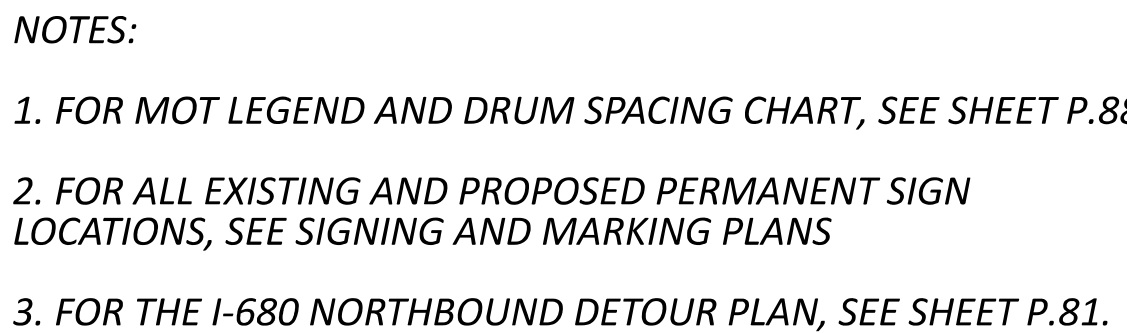
MAH-680-4.58

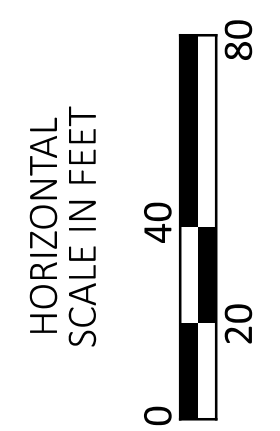
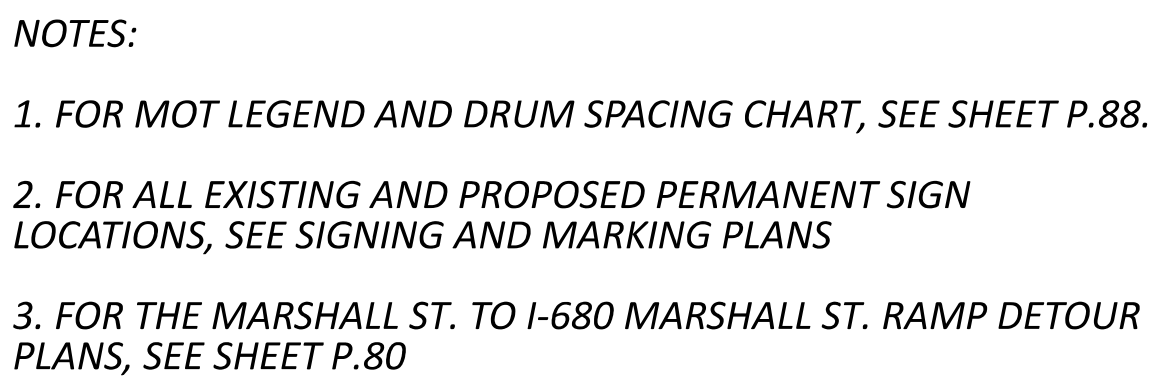
SHEET NO.	STATION TO STATION				614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	630	630	630	
					INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE-WAY, WHITE	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE-WAY, YELLOW	BARRIER REFLECTOR, TYPE 1, ONE-WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE LANE LINE, CLASS I, 6", 648	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 648, WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 648, YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 648	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	WORK ZONE STOP LINE, CLASS I, 648	WORK ZONE CROSSWALK LINE, CLASS I, 12"	WORK ZONE ARROW, CLASS I, 648	WORK ZONE ARROW, CLASS I, 648, AS PER PLAN	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, 50", AS PER PLAN, A	PORTABLE BARRIER, 50", AS PER PLAN, B	PORTABLE BARRIER, UNANCHORED	SIGN, TEMPORARY OVERLAY
					FT	EACH	EACH	EACH	EACH	FT/MI	FT/MI	FT/MI	FT/MI	FT/MI	FT/MI	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	SY	FT	FT	FT	SF	SF	EACH

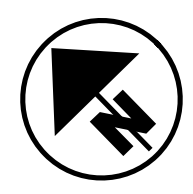
MAINTENANCE OF TRAFFIC SUBSUMMARY	
DESIGN AGENCY ms consultants, inc.	
DESIGNER KJF	
REVIEWER KWR 06/02/25	
PROJECT ID 121474	
SHEET P.74	TOTAL 655



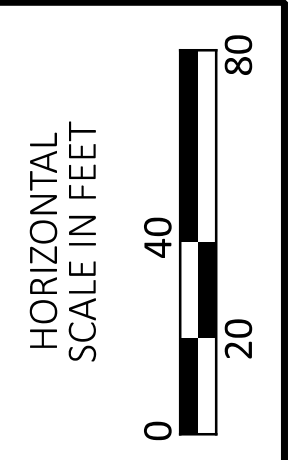








DESIGN AGENCY	
 ms consultants, inc.	
DESIGNER	
KJF	
REVIEWER	
KWR 06/02/25	
PROJECT ID	
121474	
SHEET	TOTAL
P.119	655



MAH-680-4.58

GENERAL SUMMARY



ms consultants

REVIEWER

CMN 08/29

PROJECT ID

121474

SHEET	TOTAL
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P.160	6
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SHEET NUMBER																	PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.46	P.52	P.53	P.54	P.55	P.56	P.57	P.58	P.74	P.438								01/IMS		EXT	TOTAL			
																						TRAFFIC CONTROL (CONT.)	
									30								30	850	10010	30	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
									8,201								8,201	850	10110	8,201	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
									14,471								14,471	850	10130	14,471	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
									3								3	850	20010	3	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
									707								707	850	20110	707	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
									472								472	850	20130	472	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)	
																						STRUCTURE OVER 20 FOOT SPAN (MAH-680-04.886)	P.491
																						MAINTENANCE OF TRAFFIC	
						550											550	614	11110	550	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
						1,933		14,186									16,119	614	11630	16,119	FT	INCREASED BARRIER DELINEATION	
								30									30	614	12380	30	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
	LS			75													LS	614	12420	LS		DETOUR SIGNING	
																	75	614	12484	75	EACH	WORK ZONE INCREASED PENALTIES SIGN	
			50														50	614	12500	50	EACH	REPLACEMENT SIGN	
			100														100	614	12600	100	EACH	REPLACEMENT DRUM	
				1													1	614	12756	1	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
								10,257									10,257	614	12801	10,257	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.56
	500																500	614	13000	500	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
						1,123		5,600									6,723	614	13310	6,723	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
						292											292	614	13312	292	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
						570		1,503									2,073	614	13350	2,073	EACH	OBJECT MARKER, ONE WAY	
								705									705	614	13360	705	EACH	OBJECT MARKER, TWO WAY	
							50,000										50,000	614	18000	50,000	EACH	MAINTAINING TRAFFIC, MISC.: BRIDGE DECK AND PAVEMENT PATCHING	P.58
							50,000																
					72												50,000	614	18000	50,000	EACH	MAINTAINING TRAFFIC, MISC.: SAFETY REPAIRS	P.58
																	72	614	18601	72	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.56
								7.99									7.99	614	20056	7.99	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
								6.37									6.37	614	20366	6.37	MILE	WORK ZONE LANE LINE, CLASS I, 6", 648	
								34.83									34.83	614	22056	34.83	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
								13.92									13.92	614	22336	13.92	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 648	
								45,803									45,803	614	23110	45,803	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
								10,702									10,702	614	23150	10,702	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	
								10,322									10,322	614	24102	10,322	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
								5,859									5,859	614	24142	5,859	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 648	
								123									123	614	25120	123	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	
								106									106	614	26120	106	FT	WORK ZONE STOP LINE, CLASS I, 648	
								203									203	614	27010	203	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"	
								12									12	614	30120	12	EACH	WORK ZONE ARROW, CLASS I, 648	
								9									9	614	30121	9	EACH	WORK ZONE ARROW, CLASS I, 648, AS PER PLAN	P.54
						LS											LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
							1,000	8,557									8,557	615	20001	8,557	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	P.57
							1,000										1,000	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 1	P.58
							1,000										1,000	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 2	P.58
							1,000										1,000	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 3	P.58
							1,000										1,000	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 4	P.58
			160														1,000	616	10000	160	MGAL	WATER	
								17,590									17,590	622	41011	17,590	FT	PORTABLE BARRIER, 50", AS PER PLAN, A	P.54
								1,053									1,053	622	41011	1,053	FT	PORTABLE BARRIER, 50", AS PER PLAN, B	P.54
								36,883									36,883	622	41100	36,883	FT	PORTABLE BARRIER, UNANCHORED	
				36													36	808	18700	36	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																						INCIDENTALS	
																	LS	108	10000	LS		CPM PROGRESS SCHEDULE	
																	LS	614	11000	LS		MAINTAINING TRAFFIC	
24																	24	619	16021	24	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	P.46
																	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
																	LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

MSN

REVIEWER

CMN 08/29/25

PROJECT ID

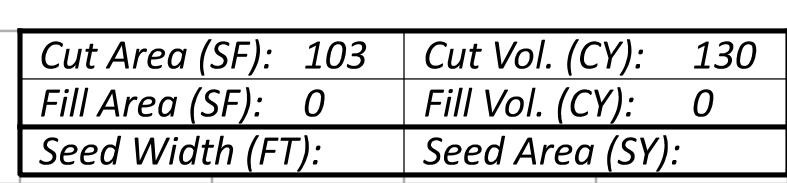
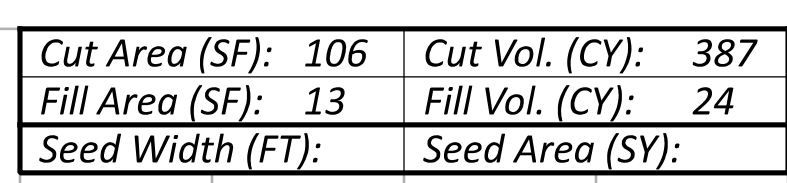
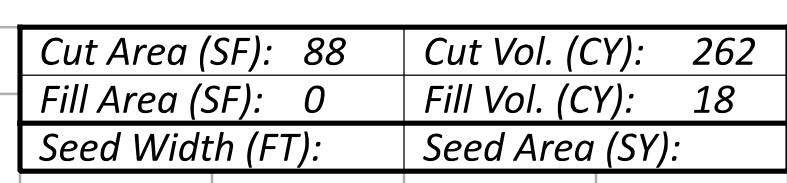
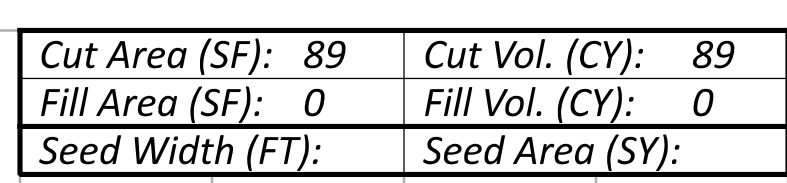
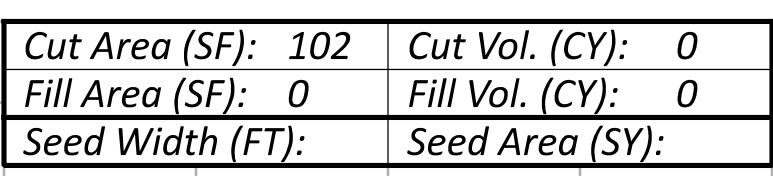
121474

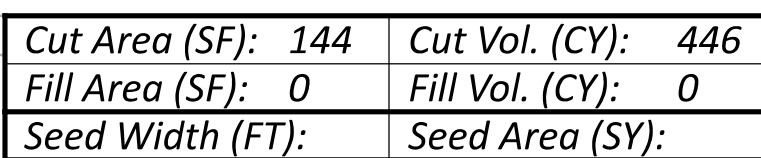
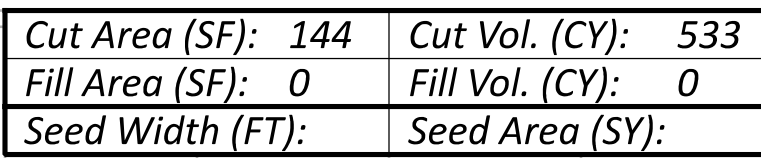
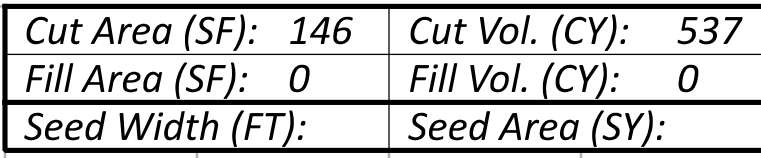
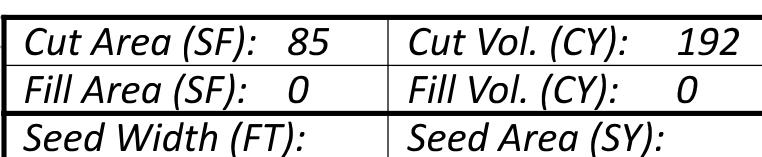
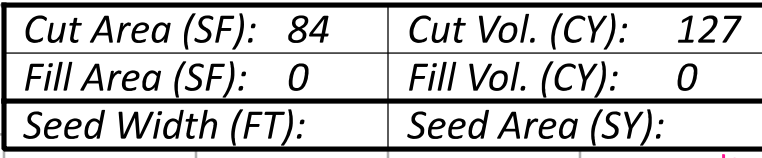
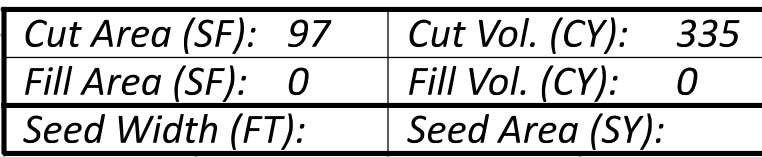
SHEET

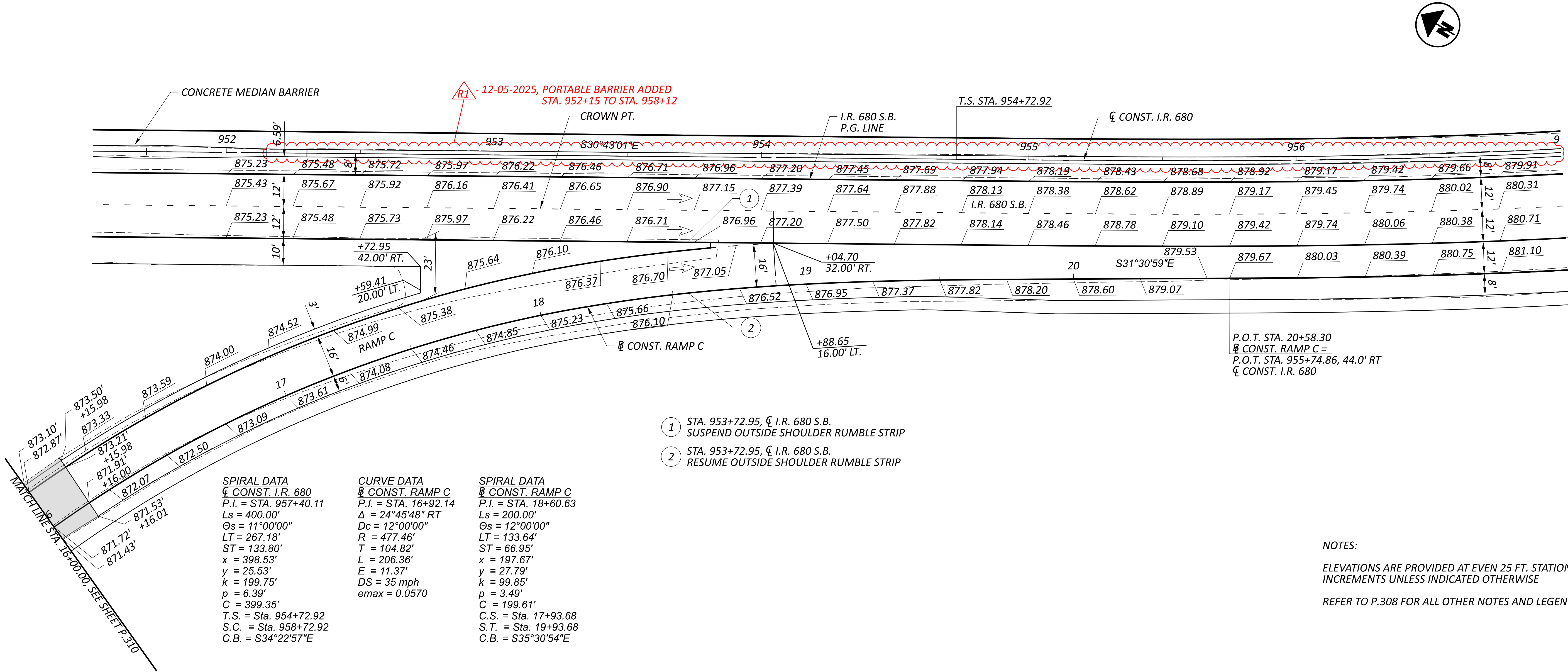
P.161A

TOTAL

655





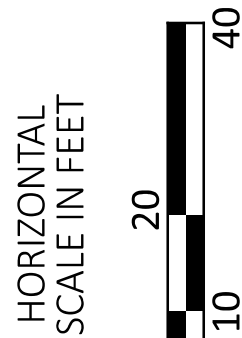


NOTES:

ELEVATIONS ARE PROVIDED AT EVEN 25 FT. STATION INCREMENTS UNLESS INDICATED OTHERWISE

REFER TO P.308 FOR ALL OTHER NOTES AND LEGEND

RAMP C GORE DETAILS						
MAINLINE STATION	WIDTH (FT)	SLOPE (%)	WIDTH (FT)	SLOPE (%)	RAMP STATIO	RAMP SIDE
952+72.95	23	-2.37%	N/A	N/A	17+59.41	SB
952+75.00	22.38	-2.40%	N/A	N/A	17+60.30	SB
953+00.00	15.54	-2.47%	N/A	N/A	17+85.39	SB
953+25.00	10.07	-2.60%	N/A	N/A	18+10.17	SB
953+50.00	5.84	-3.57%	N/A	N/A	18+35.11	SB
953+75.00	2.66	-4.53%	N/A	N/A	18+59.41	SB
954+04.70	0	0.00%	N/A	N/A	18+88.65	SB



RAMP TERMINAL DETAIL - I.R. 680 S.B.
SILLIMAN ST. - RAMP C

DESIGN AGENCY



DESIGNER
MSN

REVIEWER

CMN 08/29/25

PROJECT ID

121474

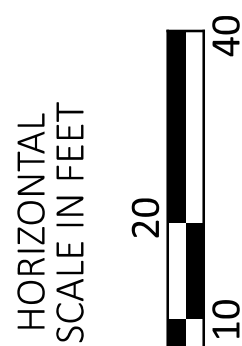
SHEET

P.311

TOTAL

655

NOTE:
ELEVATIONS ARE PROVIDED AT EVEN 25 FT. STATION
INCREMENTS UNLESS INDICATED OTHERWISE
REFER TO P.308 FOR ALL OTHER NOTES AND LEGEND



RAMP TERMINAL DETAIL - I.R. 680 N.B.
S.R. 193 RAMP B-3 AND SALT SPRINGS ROAD RAMP D

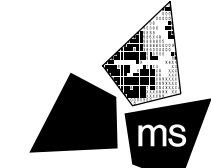
RAMP D						
MAINLINE STATION	WIDTH (FT)	SLOPE (%)	WIDTH (FT)	SLOPE (%)	RAMP STATION	RAMP SIDE
953+59.55	22.96	0.93%	N/A	N/A	6+71.20	NB
953+75.00	21.77	1.04%	N/A	N/A	6+56.41	NB
954+00.00	19.8	1.80%	N/A	N/A	6+31.58	NB
954+25.00	18.04	2.97%	N/A	N/A	6+06.68	NB
954+50.00	16.46	3.35%	N/A	N/A	5+81.71	NB
954+75.00	14.96	3.82%	N/A	N/A	5+56.69	NB
955+00.00	13.46	4.43%	N/A	N/A	5+31.70	NB
955+25.00	11.93	4.64%	N/A	N/A	5+06.80	NB
955+50.00	10.32	4.75%	N/A	N/A	4+81.94	NB
955+75.00	8.61	4.87%	N/A	N/A	4+57.17	NB
956+00.00	6.74	5.08%	N/A	N/A	4+32.47	NB
956+25.00	4.69	4.86%	N/A	N/A	4+07.80	NB
956+50.00	2.45	5.74%	N/A	N/A	3+83.23	NB
956+77.42	0	0.00%	N/A	N/A	3+56.46	NB

DESIGN EXCEPTION
STOPPING SIGHT DISTANCE
CURVE #26
(a) SSD = 325' (NDC = 425' MIN)
ACTUAL DESIGN SPEED = 42 MPH

D.E. #5 SUPERELEVATION RATE:
 CURVE #26
 $e_{max} = 0.083$
 $NDC\ e_{max} = 0.06$

 - 12-05-2025, PORTABLE BARRIER ADDED
STA. 952+15 TO STA. 958+12

DESIGN AGENCY



ms consultants, inc

DESIGNER
MSN

REVIEWER
WBH 10/04/2

PROJECT ID
121474

SHEET	TOTAL
P.313	655

REF NO.	SHEET NO.	STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
			CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED BOLTED	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, LOW MAST, 50'	LIGHT TOWER, BBB100	LIGHT POLE FOUNDATION, 24" X 10' DEEP	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	NO. 10 AWG POLE AND BRACKET CABLE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), TYPE V	LUMINAIRE, LOW MAST, SOLID STATE (LED), TYPE III	LUMINAIRE, LOW MAST, SOLID STATE (LED), TYPE V	JUNCTION BOX	MEDIAN JUNCTION BOX	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	GROUND ROD	POWER SERVICE, AS PER PLAN	CONTROL CENTER CABINET, COMPLETE	PULL BOX CLEANED
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
EX-PB-1	475	8+43.07																					1
EX-PB-2	475	8+44.47																					1
PB-GW-01	475	951+77.10																					1
GW-1-01	475	952+57.47	0	0			0			0		0			0				0				
GW-1-02	475	955+24.51	0	0			0			0		0			0				0				
GW-1-03	475	957+84.62	0	0			0			0		0			0				0				
GW-1-04	475	959+79.27	2	1			1			1		180			1				1				
PB-GW-02	475	961+81.76			3	3											1						
GW-1-05	475	961+74.82	2	1			1			1		180			1			1					
PB-GW-03	475	961+83.11															1						
GW-1-06	476	964+73.40	2	1			1		1			180		1					1				
PB-GW-04	476	966+96.16			3										1								
GW-1-07	476	967+72.59	2	1			1		1			180		1					1				
PB-GW-05	476	969+74.47				3											1						
PB-GW-06	476	969+74.99			3													1					
PB-GW-07	476	969+75.15															1						
CC-GW	476	969+93.66																1		1	1		
GW-2-01	476	970+73.68	2	1			1			1		180			1					1			
GW-2-02	476	973+50.59	2	1			1			1		180			1					1			
PB-GW-08	476	947+45.47			3	3											1						
PB-GW-09	476	2+12.93				3											1						
GW-2-04	476	1+79.39	2	1			1		1			180		1						1			
GW-2-03	476	976+28.30	2	1			1			1		180			1					1			
GW-2-05	476	978+83.39	2	1			1			1		180			1					1			
GW-2-06	476	981+90.21	2	1			1			1		180			1					1			
PB-GW-10	476	983+41.34			3	3											1						
PB-GW-11	476	7+89.65				3											1						
GW-2-07	476	11+21.59	2	1			1		1			180		1						1			
PB-GW-12	476	13+91.66				3												1					
GW-2-08	476	15+37.52	2	1			1		1			180		1						1			
PB-GW-13	476	3+42.57				3											1						
GW-2-09	476	4+80.18	2	1			1		1			180		1						1			
GW-2-10	476	7+84.52	2	1			1		1			180		1						1			
GW-2-11	476	10+83.01	2	1			1		1			180		1						1			
GW-2-12	476	984+20.17	2	1			1			1		180			1					1			
GW-2-13	476	986+19.89	2	1			1			1		180			1					1			
GW-2-14	476	988+29.96	2	1			1			1		180			1					1			
GW-2-15	476	990+37.10	2	1			1			1		180			1					1			
WA-1-01	476	14+87.12	2	1			1		1			180		1						1			
PB-WA-01	477	12+87.32				3	0										1						
WA-1-02	477	11+27.52	2	1			1		1			180		1						1			
PB-WA-02	477	992+36.51			3		0										1						
WA-1-04	477	994+69.77	2	1			1			1		180			1					1			
WA-1-05	477	997+02.47	2	1			1			1		180			1					1			
WA-1-06	477	999+50.30	2	1			1			1		180			1					1			
WA-1-07	477	1002+06.20	2	1			1			1		180			1					1			
WA-1-08	477	1004+77.15	2	1			1			1		180			1					1			
WA-1-09	477	1007+31.94	2	1			1			1		180			1					1			
WA-1-10	477	1009+92.28	2	1			1			1		180			1					1			
WA-1-11	477	1012+39.76	2	1			1			1		180			1					1			
WA-1-12	477	1014+63.58	2	1			1			1		180			1					1			
WA-1-13	477	1016+62.79	2	1			1			1		180			1					1			
WA-1-14	477	1018+61.49	2	1			1			1		180			1					1			
WA-1-15	478	1021+06.78	2	1			1			1		180			1					1			
PB-WA-03	478	1023+86.04			3	3											1						
PB-WA-04	478	1023+86.04																1					
CC-WA	478	10+44.03																					
PB-WA-05	478	1023+84.35				3											1						
WA-2-12	478	1024+41.17						1			1		1										
PB-WA-06	478	1026+90.91			3												1		2				
TOTALS CARRIED TO GENERAL SUMMARY			66	33	24	33	33	1	10	23	1	5940	1	10	23	1	6	9	2	35	2	2	3

R1

12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

R1

12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

REF NO.	SHEET NO.	STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	632	632		
			CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED BOLTED	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, LOW MAST, 50'	LIGHT TOWER, BBB100	LIGHT POLE FOUNDATION, 24" X 10' DEEP	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	NO. 10 AWG POLE AND BRACKET CABLE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), TYPE V	LUMINAIRE, LOW MAST, SOLID STATE (LED), TYPE III	LUMINAIRE, LOW MAST, SOLID STATE (LED), TYPE V	JUNCTION BOX	MEDIAN JUNCTION BOX	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	GROUND ROD	POWER SERVICE, AS PER PLAN	CONTROL CENTER CABINET, COMPLETE	PULL BOX CLEANED	BRACKET ARM, 10'	CONDUIT RISER, 1" DIAMETER	WOOD POLE
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
GA-1-11	480	1094+38.47	2	1			1		1			180		1					1							
GA-1-10	480	1091+28.89	2	1			1		1			180		1					1							
GA-1-09	480	1088+30.17	2	1			1		1			180		1					1							
PB-GA-10	480	1086+02.45				3											1									
GA-1-08	480	1089+33.94	2	1			1		1			180		1					1							
PB-GA-09	480	1089+63.20				3											1									
GA-1-07	480	1092+05.83	2	1			1		1			180		1					1							
GA-2-01	480	1097+21.91	2	1			1	0		1		180			1				1							
GA-2-02	480	1099+54.89	2	1			1			1		180			1				1							
GA-2-03	480	1102+22.73	2	1			1			1		180			1				1							
GA-2-04	480	1104+92.97	2	1			1			1		180			1				1							
PB-GA-14	480	1105+82.89			3	3										1										
PB-GA-15	480	735+90.31															1									
PB-GA-16	480	735+85.31				3											1									
GA-2-05	480	737+34.54	2	1			1		1			180		1					1							
GA-2-06	481	1107+67.57	2	1			1			1		180			1				1							
GA-2-07	481	734+36.09	2	1			1		1			180		1					1							
GA-2-08	481	731+33.87	2	1			1		1			180		1					1							
GA-2-09	481	728+17.35	2	1			1		1			180		1					1							
GA-2-10	481	724+99.96	2	1			1		1			180		1					1							
GA-2-11	481	722+61.27	2	1			1		1			180		1					1							
PB-GW-A	475	952+46.95				3											1									
PB-GW-B	475	952+35.55				3											1									
PB-GW-C	475	951+75.95				3											1									
PB-GW-D	475	958+14.15				3											1									
PB-GW-E	475	958+13.70				3										1										
GW-1-01	475	952+85.64										135			1								1	1		
GW-1-02	475	957+90.40										135			1								1	1		
</																										

R1 12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

R1 12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

REF NO.	SHEET NO.	STATION TO STATION				625	625	625	625	625	625	625												
						NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	CONDUIT, 2", 725.051	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, AS PER PLAN, 3"	CONDUIT CLEANED AND CABLES REMOVED, AS PER PLAN	TRENCH	STRUCTURE GROUNDING SYSTEM	UNDERGROUND WARNING/MARKING TAPE										
					FT	FT	FT	FT	FT	FT	EACH	FT												
PB-GW-01	475	951+77.10	TO	952+15.00			38																	
GW-1-01	475		TO		0		0																	
GW-1-02	475		TO		0		0																	
GW-1-03	475	958+12.00	TO	959+79.27	531		167																	
GW-1-04	475	959+79.27	TO	961+74.82	618		198																	
GW-1-05	475	961+74.82	TO	961+81.76	51		7																	
PB-GW-02	475	961+81.76	TO	961+83.11	195			55			55		55											
PB-GW-03	475/476	961+83.11	TO	964+73.40	945			305			38		38											
bridge	475/476	962+18.6	TO	968+77.69								1												
GW-1-06	476	964+73.40	TO	966+96.16	729			233																
PB-GW-04	476	966+96.16	TO	969+74.47	882			284			98		98											
PB-GW-05	476	969+74.47	TO	969+93.66	510			75			75		75											
PB-GW-05	476	969+74.47	TO	969+74.99	408			58			58		58											
PB-GW-06	476	969+74.99	TO	969+75.15	192			54			54		54											
GW-1-07	476	967+72.59	TO	969+75.15	633			201			12		12											
PB-GW-06	476	969+74.99	TO	970+73.68	327		99																	
GW-2-01	476	970+73.68	TO	973+50.59	861		277																	
GW-2-02	476	973+50.59	TO	974+45.47	315		95																	
PB-GW-08	476	974+45.47	TO	2+12.93	246			72			72		72											
GW-2-04	476	1+79.39	TO	2+12.93		43					33		33											
PB-GW-08	476	974+45.47	TO	976+28.30	579		183																	
GW-2-03	476	976+28.30	TO	978+83.39	795		255																	
GW-2-05	476	978+83.39	TO	981+90.21	312		94		213															
GW-2-06	476	981+90.21	TO	983+41.34	483		151																	
PB-GW-10	476	983+41.34	TO	7+89.65	282			84			84		84											
PB-GW-11	476	7+89.65	TO	11+21.59		306					296		296											
GW-2-07	476	11+21.59	TO	13+91.66		234					224		224											
PB-GW-12	476	13+91.66	TO	15+37.52		150					140		140											
PB-GW-12	476	13+91.66	TO	3+42.57	285				85															
PB-GW-13	476	3+42.57	TO	4+80.18		155					145		145											
GW-2-09	476	4+80.18	TO	7+84.52		317					307		307											
GW-2-10	476	7+84.52	TO	10+83.01		297					287		287											
PB-GW-10	476	983+41.34	TO	984+20.17	267		79																	
GW-2-12	476	984+20.17	TO	986+19.89	630		200																	
GW-2-13	476	986+19.89	TO	988+29.96	660		210																	
GW-2-14	476	988+29.96	TO	990+37.10	651		207																	
PB-WA-01	477/476	12+87.32	TO	14+87.12		205					195		195											
WA-1-02	477	11+27.52	TO	12+87.32		166					156		156											
PB-WA-01	477	12+87.32	TO	992+36.51	261			77			77		77											
PB-WA-02	477	992+36.51	TO	992+42.52	48		6																	
WA-1-03	477	992+42.52	TO	994+69.77	711		227																	
WA-1-04	477	994+69.77	TO	997+02.47	729		233																	
WA-1-05	477	997+02.47	TO	999+50.30	774		248																	
WA-1-06	477	999+50.30	TO	1002+06.20	798		256																	
WA-1-07	477	1002+06.20	TO	1004+77.15	843		271																	
WA-1-08	477	1004+77.15	TO	1007+31.94	102		24		231															
WA-1-09	477	1007+31.94	TO	1009+92.28	810		260																	
WA-1-10	477	1009+92.28	TO	1012+39.76	774		248																	
WA-1-11	477	1012+39.76	TO	1014+63.58	702		224																	
WA-1-12	477	1014+63.58	TO	1016+62.79	627		199																	
WA-1-13	477	1016+62.79	TO	1018+61.49	627		199																	
WA-1-14	477/478	1018+61.49	TO	1021+06.78	765		245																	
WA-1-15	478	1021+06.78	TO	1023+86.04	867		279																	
PB-WA-05	478	1023+84.35	TO	1023+86.04	225			65			65		65											
PB-WA-05	478	1023+84.35	TO	1024+41.17		65					55		55											
PB-WA-03	478	1023+86.04	TO	1023+86.04	285			85			85		85											
PB-WA-04	478	1023+86.04	TO	10+44.03	219		63				63		63											
PB-WA-03	478	1023+86.04	TO	1026+90.91	945		305																	
PB-WA-06	478	1026+90.91	TO	1029+70.76	870		280																	
PB-WA-07	478	1029+70.76	TO	1029+70.76	243		71				71		71											
TOTALS CARRIED TO GENERAL SUMMARY					24612	1938	5762	1782	85	444	2745	1	2745											

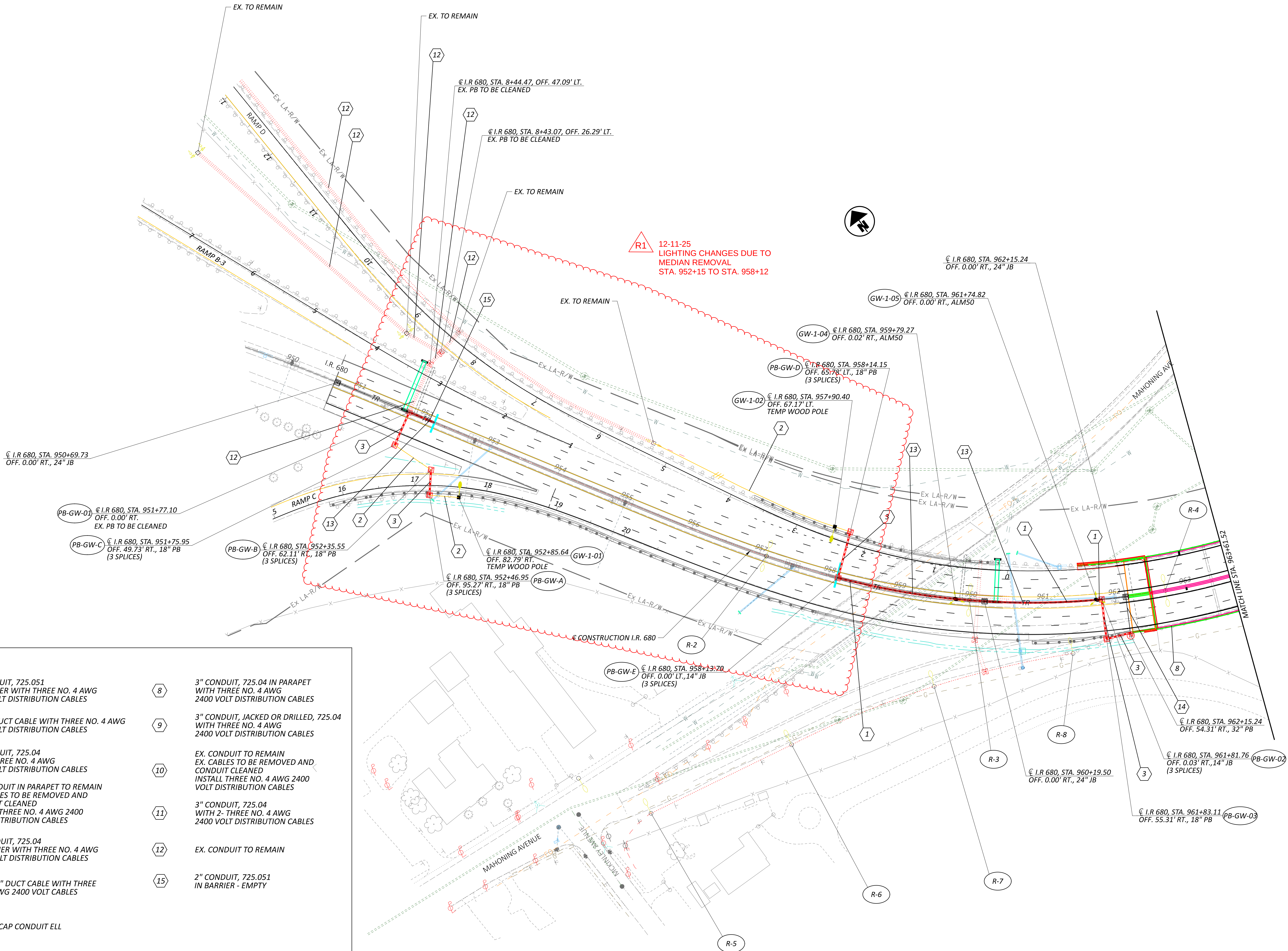
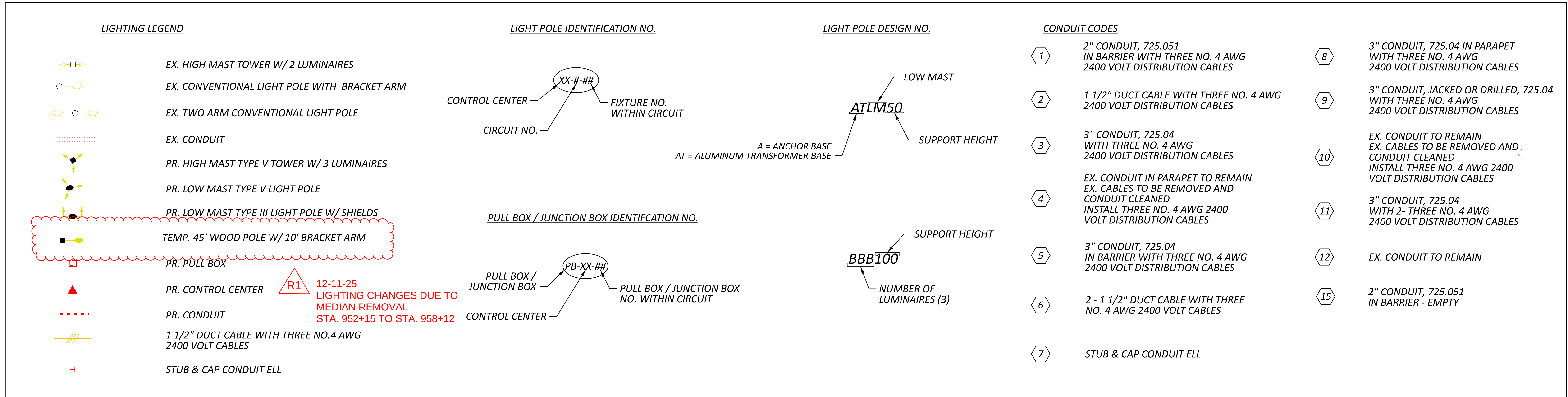
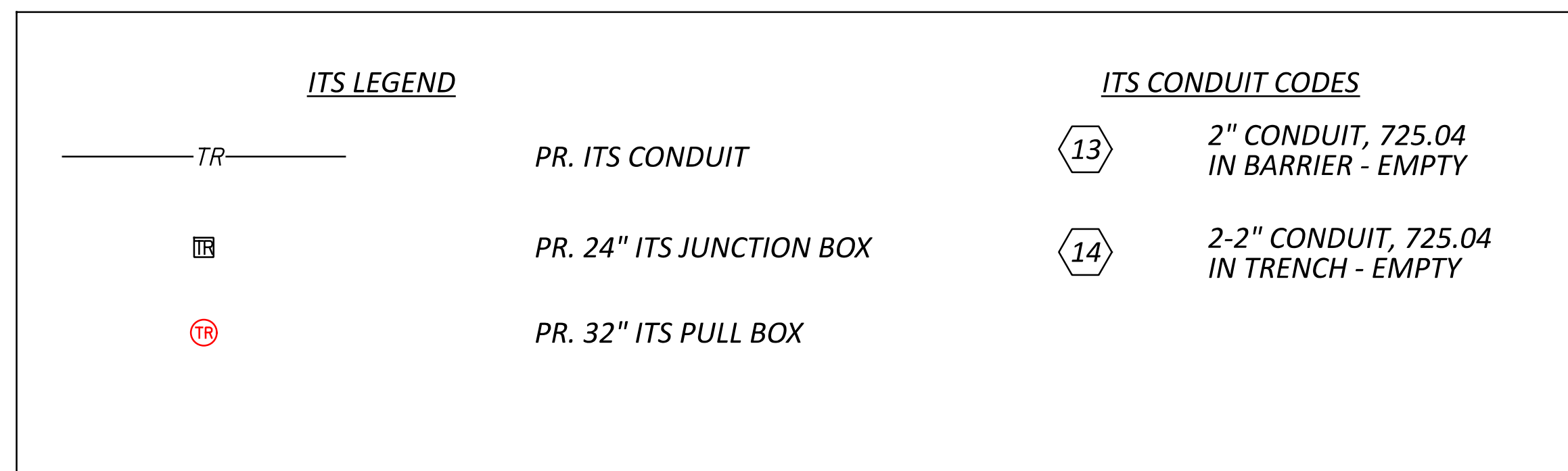
R1 12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

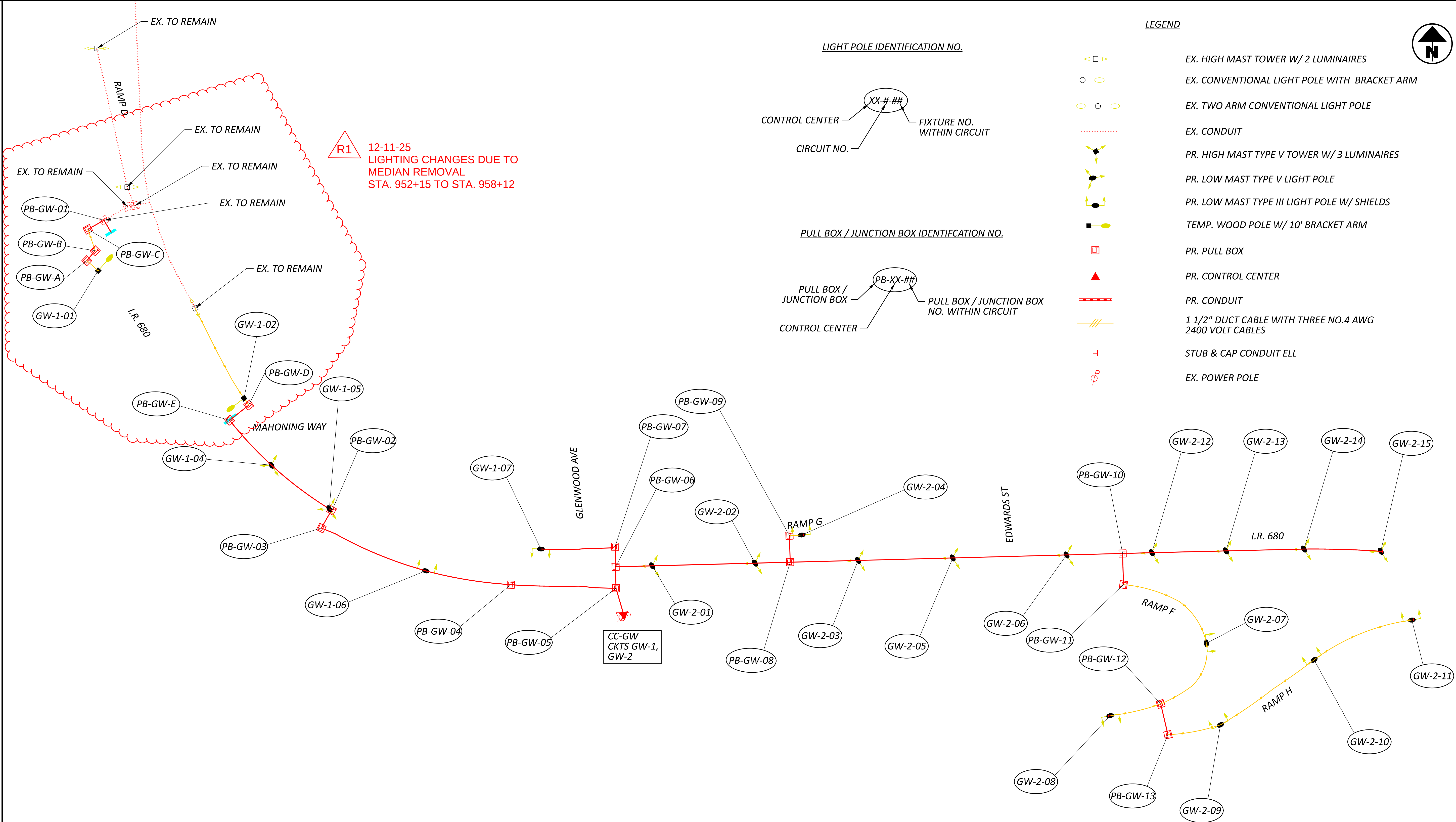
R1 12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

REF NO.	SHEET NO.	STATION TO STATION				625	625	625	625	625	SPECIAL												
						PULL BOX REMOVED	LIGHT TOWER REMOVED	LIGHT POLE REMOVED	LIGHT POLE FOUNDATION REMOVED	LIGHT TOWER FOUNDATION REMOVED	REPLACEMENT OF EXISTING LIGHTING UNIT												
						EACH	EACH	EACH	EACH	EACH	EACH												
	475-481	935+11.52	TO	1129+50.00		15					10												
	475	935+11.52	TO	963+61.52			0	7	7	0													
	476	963+61.52	TO	992+11.52			3	12	12	3													
	477	992+11.52	TO	1020+61.52				14	14														
	478	1020+61.52	TO	1049+11.52			1	21	21	1													
	479	1049+11.52	TO	1077+61.52				10	10														
	480	1077+61.52	TO	1106+11.52			4	9	9	4													
	481	1106+11.52	TO	1126+50.00				9	9														

R1
12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12

R1
12-11-25
LIGHTING CHANGES DUE TO
MEDIAN REMOVAL
STA. 952+15 TO STA. 958+12





CONTROL CENTER	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NUMBER	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
GW	480	10.75	2	60	1	8.90	20	4	ODOT
					2	13.50	20	4	